

Pricing

Hourly Equipment Rates - Description	Unit	Price
JD 544 Wheel Loader with debris grapple*	Hour	
JD 644 Wheel-Loader with debris grapple*	Hour	
Extendaboom Forklift with debris grapple*	Hour	
753 Bobcat Skid Steer Loader with debris grapple*	Hour	
753 Bobcat Skid Steer Loader with bucket*	Hour	
753 Bobcat Skid Steer Loader with street sweeper*	Hour	
30 - 50 HP Farm Tractor with box blade or rake	Hour	
2 - 2 1/2 cu. yd. Articulated Loader with bucket	Hour	
3 - 4 cu. yd. Articulated Loader with bucket	Hour	
JD 648E Log Skidder*	Hour	
CAT D4 Dozer*	Hour	
CAT D6 Dozer*	Hour	
CAT D8 Dozer*	Hour	
CAT125 - 140 HP Motor Grader*	Hour	
JD 690 Trackhoe with debris grapple*	Hour	
JD 690 Trackhoe with bucket & thumb*	Hour	
Rubber Tired Trackhoe with debris grapple	Hour	
JD 310 Rubber Tire Backhoe with bucket and hoe*	Hour	
Rubber Tired Excavator with debris grapple	Hour	
210 Prentiss Knuckleboom with debris grapple*	Hour	
Self-Loader Scraper Cat 623*	Hour	
Hand Fed Debris Chipper	Hour	
300 - 400 Tub Grinder	Hour	
800 -1,000 HP Diamond Z Tub Grinder*	Hour	
30 Ton Crane	Hour	
50 Ton Crane	Hour	
100 Ton Crane (8 hour minimum)	Hour	
40 - 60' Bucket Truck	Hour	
Service Truck	Hour	
Water Truck	Hour	
Portable Light Plant	Hour	
Equipment Transports	Hour	
Pickup Truck, unmanned	Hour	
Self-loading Dump Truck with knuckleboom & debris grapple	Hour	
Single Axle Dump Truck, 5 - 12 Cu. Yd.	Hour	
Tandem Dump Truck, 16 - 20 Cu. Yd.	Hour	
Trailer Dump Truck, 24-40 Cu. Yd.	Hour	
Trailer Dump Truck, 41-60 Cu. Yd.	Hour	
Trailer Dump Truck, 61 - 80 Cu. Yd.	Hour	
Power Screen	Hour	
Stacking Conveyor	Hour	
Off Road Trucks	Hour	

* or equivalent

Hourly Labor Rates and Personnel Description	Unit	Unit Price
Operations Manager	Hour	

Superintendent with truck, phone & radio	Hour	
Foreman with truck, phone & radio	Hour	
Safety/Quality Control Inspector with vehicle, phone & radio	Hour	
Inspector with vehicle, phone & radio	Hour	
Climber with gear	Hour	
Saw Hand with chainsaw	Hour	
Laborers & Flagmen	Hour	
Timekeeper	Hour	
HazMat Professional	Hour	
Household HazMat Inspection & Removal Crew	Hour	
Public Assistance Manager	Hour	
Documentation Clerk	Hour	

Materials Description	Unit	Unit Price
Fill Dirt for Stump Holes - Purchased, Placed, and Shaped	CY	
Portable Dewatering Pumps & Hoses 6"	per day	
Portable Dewatering Pumps & Hoses 8"	per day	

NOTES:

1. The equipment, labor and material rates shown above are for tasks requested by the Client which are not covered in the rates (per cubic yard) for normal debris removal and reduction.

Daily Haul Records

Contractor: _____

Total Work Days To Date: _____

Monitoring Firm: _____

Total Days into Contract Period: _____

Production Data

Trucks in Operation Today: _____

Today's Debris Production: _____

Volume (CY) Weight (Tons)

Average Loads Per Truck: _____

Average Daily Production: _____

Debris Quantity Summary - Right of Way

		<i>Volume (CY)</i>		<i>Weight (Tons)</i>		
	<i>Today</i>	<i>To Date</i>	<i>Today</i>	<i>To Date</i>	<i>Today</i>	<i>To Date</i>
Vegetative Loads:	_____	_____	_____	_____	_____	_____
C & D Loads:	_____	_____	_____	_____	_____	_____
Wood Chip Loads:	_____	_____	_____	_____	_____	_____
Other Loads:	_____	_____	_____	_____	_____	_____

Debris Quantity Summary - Total Project

		<i>Volume (CY)</i>		<i>Weight (Tons)</i>		
	<i>Today</i>	<i>To Date</i>	<i>Today</i>	<i>To Date</i>	<i>Today</i>	<i>To Date</i>
Total Loads Generated:	_____	_____	_____	_____	_____	_____
Total Cubic Yards:	_____	_____	_____	_____	_____	_____

Unit Rate Items

		<i>Today</i>	<i>To Date</i>			<i>Today</i>	<i>To Date</i>
Leaning Trees (6"-12"):	_____	_____	_____	White Goods:	_____	_____	_____
Leaning Trees (13"-24"):	_____	_____	_____	Stumps:	_____	_____	_____
Leaning Trees (25"-36"):	_____	_____	_____	Traffic Control (Inter.):	_____	_____	_____
Leaning Trees (37"+):	_____	_____	_____	Traffic Control (2 Way):	_____	_____	_____
Hanging Limbs:	_____	_____	_____	Separation Crew:	_____	_____	_____
				Consolidation Crew:	_____	_____	_____

Note: The Quantities Listed on this Report are for Progress Reporting Only and may not Reflect Final Pay Quanties.

ATTACHMENT SAMPLE LOAD TICKET

TICKET NUMBER:		
CONTRACT NUMBER		
CONTRACTOR		
DATE:		
DEBRIS QUANTITY		
Truck No:	Capacity (CY):	
Load Size (CY): Tons:		
Truck Driver:		
Origin of Load:		
DEBRIS CLASSIFICATION		
	Burnable	
	Non-Burnable	
	Mixed	
	Other	
LOCATION		
Section/Area:	Dumpsite	
	Time	Inspector
Loading		
Dumping		
Eligibility (Y/N):	Original: Brown Yellow: Contractor Pink: Driver Gold : FEMA	

Truck Placard

Truck Information

Make

Year

Color

License

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Truck Measurements

Performed By: _____

Date: _____

Volume Calculated By: _____

Date: _____

Both Checked By: _____

Date: _____

Driver Information

Name: _____

Address: _____

Phone Number: _____

Owner Information

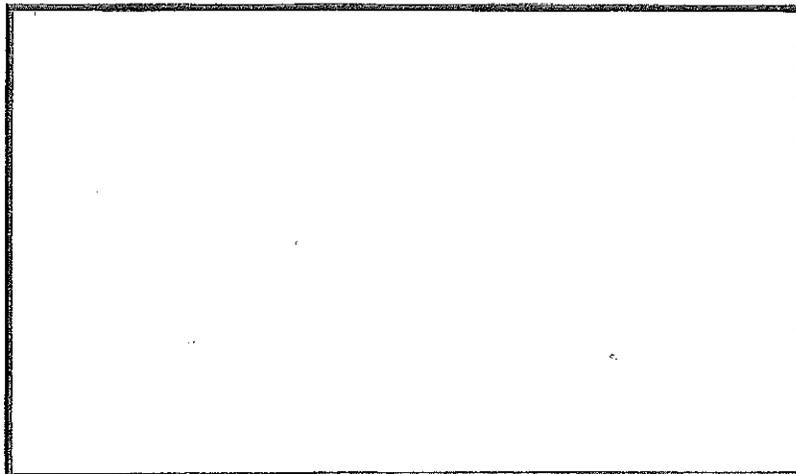
Name: _____

Address: _____

Phone Number: _____

Truck Identification: _____

Truck Capacity: _____



Photo

Truck Certification

DUMP TRUCK

Measurements

Truck Measurements

Length (L) = Width (W) ft = Height (H) ft =

Hoist Measurement

Length₁ (L₁) ft =
 Length₂ (L₂) ft = Width_H (W_H) ft = Height_H (H_H) ft =

Radius

Radius ft = Height (H) =

Calculations

Bed Volume (Basic)

$(L \times W \times H) / 27 =$ cyd

Hoist Volume

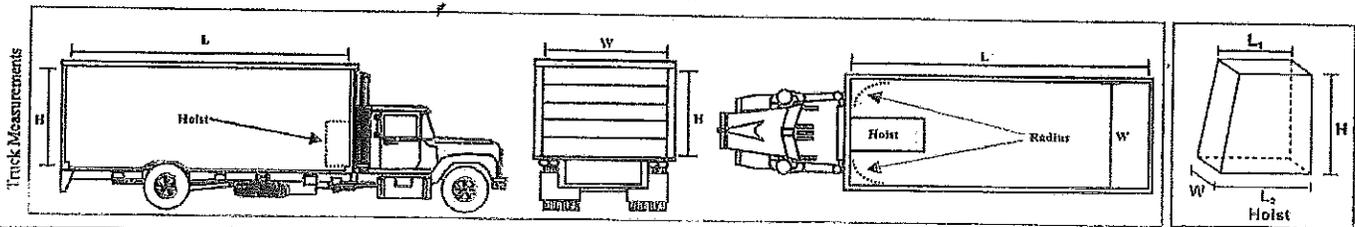
$((L_1 + L_2) / 2) \times W_H \times H_H / 27 =$ cyd

Radius Volume

$(3.14 \times R^2 \times H) / 27 =$ cyd

Total = cyd

Cubic Yards



EXTRA TRAILER

Measurements

Truck Measurements (Basic)

Length (L) = Width (W) ft = Height (H) ft =

Hoist Measurement

Length₁ (L₁) ft =
 Length₂ (L₂) ft = Width_H (W_H) ft = Height_H (H_H) ft =

Radius

Radius ft = Height (H) =

Calculations

Bed Volume (Basic)

$(L \times W \times H) / 27 =$ cyd

Hoist Volume

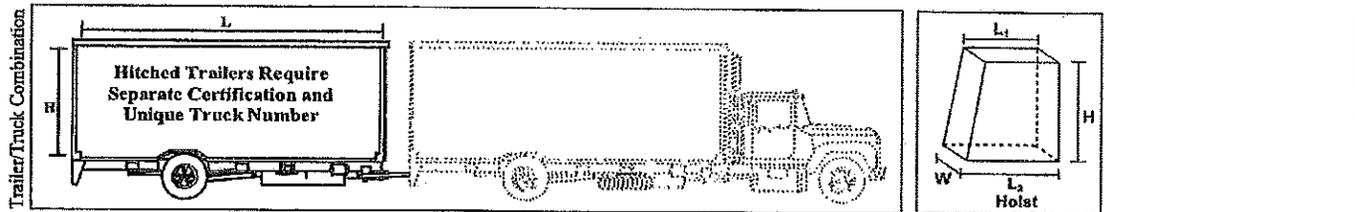
$((L_1 + L_2) / 2) \times W_H \times H_H =$ cyd

Radius Volume

$(3.14 \times R^2 \times H) / 27 =$ cyd

Total = cyd

Cubic Yards



ROUND BOTTOM TRUCK

Measurements

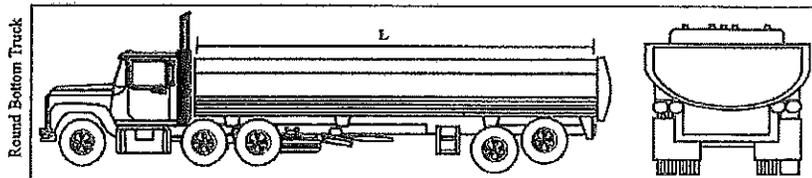
Truck Measurements

Length (L) ft = Diameter (D) ft =

Calculations

Approx. Volume $(3.14 \times (D/2)^2 \times L) / 27 =$ cyd (round bottom portion only)

Cubic Yards



STUMP CONVERSION TABLE

Diameter to Volume Capacity

FEMA quantifies the number of cubic yards of debris for each size of stump based on the following formula:

$$\frac{[(\text{Stump Diameter}^2 \times 0.7854) \times \text{Stump Length}] + [(\text{Root-Ball Diameter}^2 \times 0.7854) \times \text{Root-Ball Height}]}{46,656}$$

0.7854 is one-fourth Pi and is a constant.

46,656 is used to convert cubic inches to cubic yards and is a constant.

The formula used to calculate the cubic yardage used the following factors, based upon findings in the field:

- Stump diameter measured 2 feet up from the ground
- Stump diameter to root-ball diameter ratio of 1:3.6
- Root-ball height of 31 inches

Stump Diameter (inches)	Debris Volume (Cubic Yards)	Stump Diameter (inches)	Debris Volume (Cubic Yards)
6	0.3	46	15.2
7	0.4	47	15.8
8	0.5	48	16.5
9	0.6	49	17.2
10	0.7	50	17.9
11	0.9	51	18.6
12	1	52	19.4
13	1.2	53	20.1
14	1.4	54	20.9
15	1.6	55	21.7
16	1.8	56	22.5
17	2.1	57	23.3
18	2.3	58	24.1
19	2.6	59	24.9
20	2.9	60	25.8
21	3.2	61	26.7
22	3.5	62	27.6
23	3.8	63	28.4
24	4.1	64	29.4
25	4.5	65	30.3

26	4.8	66	31.2
27	5.2	67	32.2
28	5.6	68	33.1
29	6	69	34.1
30	6.5	70	35.1
31	6.9	71	36.1
32	7.3	72	37.2
33	7.8	73	38.2
34	8.3	74	39.2
35	8.8	75	40.3
36	9.3	76	41.4
37	9.8	77	42.5
38	10.3	78	43.6
39	10.9	79	44.7
40	11.5	80	45.9
41	12	81	47
42	12.6	82	48.2
43	13.3	83	49.4
44	13.9	84	50.6
45	14.5		

